CLAIMS

A user interface for a handwriting recognition system used with a visual display

What is claimed is:

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contrasting area on said display.

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2	having a screen, said interface comprising:
3	means for opening a semi-transparent window in said display, said semi-transparent
4	window permitting a user to view features of a portion of said display over which said semi-
5	transparent window is opened, said semi-transparent window having boundaries which define a

2. The user interface of claim 1, further comprising: an input device for inputting data from said user;

and wherein said semi-transparent window is opened automatically when said user activates said input device at a point on said screen.

- 3. The user interface of claim 2, wherein said semi-transparent window opens in a predetermined size and position relative to said point on said screen.
- 1 4. The user interface of claim 3, further comprising means for permitting said user 2 to alter said size of said semi-transparent window after said semi-transparent window opens.
 - 5. The user interface of claim 4, further comprising means for automatically increasing said size of said semi-transparent window when said user touches said touch-activated screen at a point on said touch-activated screen which is outside said borders of said

- 4 semi-transparent window after said semi-transparent window has been opened, said increased
- 5 size of said semi-transparent window including said point on said touch-activated screen which
- 6 is outside said borders.
- 1 6. The user interface of claim 3, further comprising means for permitting said user
- 2 to move said semi-transparent window to a new position in said display from said
- 3 predetermined position after said semi-transparent window has been opened.
 - 7. The user interface of claim 3, wherein said predetermined size and position are alterable by said user.
 - 8. The user interface of claim 1, wherein said contrasting area is of a color which is different from a color of said portion of said display over which said semi-transparent window is opened.
 - 9. The user interface of claim 1, wherein said contrasting area is of a brightness which is different from a brightness of said portion of said display over which said semi-transparent window is opened.
- 1 10. The user interface of claim 2, wherein said opened semi-transparent window 2 closes automatically upon an elapse of a predetermined time interval during which no input by
- 3 said user occurs.

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- 1 11. The user interface of claim 1, wherein said semi-transparent window opens
 2 automatically when said device requires entry of information from said user.
- 1 12. The user interface of claim 2, further comprising means for generating a visual representation on said display of movement of said input device implement by said user across said screen.
 - 13. The user interface of claim 12, in which said means for generating stops generating said visual representation of said movement of said writing implement across said display when a predetermined period of time elapses after cessation of movement of said input device on said display.
 - 14. The user interface of claim 2, wherein said input device is selected from the group consisting of: a touch-activated screen, a mouse, a joystick, a keyboard, a trackball and an electronic tablet.
- 1 15. A user input system for use with an electronic device, comprising:
- 2 an input device;
- a visual display having a screen, said screen including means for generating an output signal in response to a signal generated by said input device;
 - means for opening a semi-transparent window in said display in response to said signal from said input device, said semi-transparent window permitting a user to view features of a portion of said display over which said semi-transparent window is opened, said semi-

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- 8 transparent window having boundaries which define a contrasting area on said display and
- 9 being sized to receive input from said input device, said input including at least one manuscript
- 10 character;
- means for recognizing said at least one received manuscript character; and
- means for displaying said at least one recognized manuscript character on said visual
- 13 display.
 - 16. The user input system of claim 15, wherein said semi-transparent window is opened automatically in response to said input from said input device.
 - 17. The user input system of claim 16, wherein said semi-transparent window opens in a predetermined size and position relative to a point at which said at least one manuscript character is input.
 - 18. The user input system of claim 17, further comprising means for permitting said user to alter said size of said semi-transparent window after said semi-transparent window is opened.
 - 19. The user input system of claim 18, further comprising means for automatically increasing said size of said open semi-transparent window when said at least one manuscript character is input at a point on said screen which is outside said borders of said semi-transparent window after said semi-transparent window has been opened, said increased size of
- 5 said semi-transparent window including said point which is outside said borders.

- 1 20. The user input system of claim 17, further comprising means for permitting said
- 2 user to move said semi-transparent window to a new point in said display from said
- 3 predetermined position after said semi-transparent window has been opened.
- 1 21. The user input system of claim 17, wherein said predetermined size and position
- 2 are alterable by said user.
 - 22. The user input system of claim 15, wherein said contrasting area is of a color which is different from a color of said portion of said display over which said semi-transparent window is opened.
 - 23. The user input system of claim 15, wherein said contrasting area is of a brightness which is different from a brightness of said portion of said display over which said semi-transparent window is opened.
 - 24. The user input system of claim 15, wherein said open semi-transparent window closes automatically upon elapse of a predetermined time interval during which no touching of said touch-activated screen occurs.
- 1 25. The user input system of claim 15, wherein said semi-transparent window opens 2 automatically when said device requires entry of information from said user.

visual representation on said display of movement of said input device by said user across said
 screen.

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- The user input system of claim 26, in which said means for generating stops generating said visual representation of said movement of said input device across said screen when a predetermined period of time elapses after any movement of said input device.
 - 28. The user input system of claim 15, wherein said electronic device is a telephone.

The user input system of claim 15, further comprising means for generating a

- 29. The user input system of claim 15, wherein said electronic device is a computer.
- 30. The user input system of claim 15, wherein said electronic device is a personal digital assistant.
- 31. The user input system of claim 15, wherein said input device is selected from the group consisting of: a touch-activated screen, a mouse, a joystick, a keyboard, or trackball, and an electronic tablet.
- 32. In a handwriting recognition system used with a visual display having a screen, a method of providing a user interface, said method comprising:
- opening a semi-transparent window in said display, said semi-transparent window

 permitting a user to view features of a portion of said display over which said semi-transparent

- window has opened, said semi-transparent window having boundaries which define a contrasting area on said display.
- The method of claim 32, wherein said semi-transparent window is opened automatically when said user activates an input device for translating movement of said input device into a graphical representation of said movement on said screen.
 - 34. The method of claim 33, wherein said semi-transparent window opens in a predetermined size and position relative to a point on said screen at which said user initiates movement of said input device.
 - 35. The method of claim 32, further comprising means for permitting said user to alter said size of said semi-transparent window after said semi-transparent window has opened.
 - 36. The method of claim 35, further comprising the step of:
 automatically increasing said size of said open semi-transparent window when said user
 activates said input device at a point on said display which is outside said borders of said semitransparent window after said semi-transparent window has been opened.
 - 37. The method of claim 34, further comprising the step of:

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permitting said user to move said semi-transparent window to a new position in said display from said predetermined position after said semi-transparent window has opened.

- 38. The method of claim 34, wherein said predetermined size and position are 1 2 alterable by said user.
- The method of claim 32, wherein said contrasting area is of a color which is 39. 1 different from a color of said portion of said display over which said semi-transparent window 2 has opened.

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- The method of claim 32, wherein said contrasting area is of a brightness which 40. is different from a brightness of said portion of said display over which said semi-transparent window has opened.
- The method of claim 32, wherein said open semi-transparent window closes 41. automatically upon elapse of a predetermined time interval during which no input from said input device occurs.
 - 42. The method of claim 32, further comprising the step of:
- opening said semi-transparent window automatically when said device requires entry of 2 3 information from said user.
- The method of claim 32, further comprising the step of: 43. 1
- generating a visual representation on said display of movement of said input device by 2 3 said user.
 - The method of claim 43, further comprising the step of: 44.

- ceasing generating said visual representation of said movement of said input device
 when a predetermined period of time elapses after any movement of said input device.
- The method of claim 32, wherein said input device is selected from the group consisting of: a touch-activated screen, a mouse, a joystick, a keyboard, a trackball, and an electronic tablet.
 - 46. A method of inputting data to an electronic device, comprising: displaying information on a visual display having a screen; generating an output signal in response to movement of an input device;

opening a semi-transparent window in said display in response to said movement of said input device, said semi-transparent window permitting a user to view features of a portion of said display over which said semi-transparent window is open, said semi-transparent window having boundaries which define a contrasting area on said display and being sized to receive an input from said input device, said input including at least one manuscript character;

- 9 recognizing said at least one manuscript character; and
 10 displaying the recognized manuscript characters on the visual display.
 - 47. The method of claim 46, further comprising the step of:
- opening said semi-transparent window automatically when said user moves said input
 device.

- 1 48. The method of claim 46, wherein said semi-transparent window opens in a
- 2 predetermined size and position relative to a point on said display at which said user
- 3 commences movement of said input device.
- 1 49. The method of claim 46, further comprising the step of:
- 2 permitting said user to alter said size of said open semi-transparent window after said
- 3 semi-transparent window opens.
 - 50. The method of claim 49, further comprising the step of:

automatically increasing said size of said open semi-transparent window when said user touches said touch-activated screen at a point on said display which is outside said borders of said semi-transparent window after said semi-transparent window has been opened.

- 51. The method of claim 48, further comprising the step of:
- permitting said user to move said semi-transparent window to a new position on said display from said predetermined position after said semi-transparent window has opened.
- 52. The method of claim 48, wherein said predetermined size and position are alterable by said user.
- The method of claim 46, wherein said contrasting area is of a color which is
- 2 different from a color of said portion of said display over which said semi-transparent window
- 3 has opened.

- The method of claim 46, wherein said contrasting area is of a brightness which
- 2 is different from a brightness of said portion of said display over which said semi-transparent
- 3 window has opened.
- The method of claim 46, further comprising the step of closing said open semi-
- 2 transparent window automatically upon elapse of a predetermined time interval during which
- 3 no touching of said touch-activated screen occurs.
 - 56. The method of claim 46, further comprising the step of:

opening said semi-transparent window automatically when said device requires entry of information.

- 57. The method of claim 46, further comprising the step of:
 generating a visual representation on said display of movement of said input device.
- 58. The method of claim 57, further comprising the step of:
- ceasing generating of said visual representation of said movement of said input device
 when a predetermined period of time elapses after any movement of said input device.
- The method of claim 46, wherein said electronic device is a telephone.
- 1 60. The method of claim 46, wherein said electronic device is a computer.
- 1 61. The method of claim 46, wherein said electronic device is a personal digital
- 2 assistant.

- 1 62. The method on claim 46, wherein said input device is selected from the group
- 2 consisting of: a touch-activated screen, a mouse, a joystick, a keyboard, a trackball, and an
- 3 electronic tablet.